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TEST REPORT

Client	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Park development and Walking Track in Thirumenahalli Lake at Ward No 05 Jakkur
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Drain
Location/Source	At Plant/site	Date of Sampling	24-05-19
Period of Soaking	24 hours	Date of Testing	24-05-19

Sl.No	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	672	647	658	
B	Weight of oven - dry sample gm.	662	637	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1698	1685	1695	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.659	2.688	2.723	**2.690**
F	Absorption (%) $\frac{(A-B)*100}{B}$	1.511	1.570	1.543	**1.541**

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SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Materia	Fine aggregate (River Sand/M sand)		Proposed Use	Drain	
Sample Location	At Plant/site		Date of Sampling	24-05-19	
			Date of Testing	24-05-19	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	220	220	7.33	92.67	90 - 100
2.36 mm	283	503	16.77	83.23	75 - 100
1.18 mm	540	1043	34.77	65.23	55 - 90
0.600 mm	572	1615	53.83	46.17	35 -59
0.300 mm	630	2245	74.83	25.17	8-30
0.150 mm	540	2785	92.83	7.17	0 - 10
Pan	215	3000			-

Remarks : Satisfactory / Not Satisfactory

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Test report on Compressive strength of concrete cubes

Project	Park development and Walking Track in Thirumenahalli Lake at Ward No 05 Jakkur
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	25-05-19	22-06-19	28 days	8.658	22500	456	20.27	20.52
2	25-05-19	22-06-19	28 days	8.762	22500	459	20.40	
3	25-05-19	22-06-19	28 days	8.555	22500	470	20.89	

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	25-05-19	1/6/2019	7 days	8.822	22500	296	13.16	13.14
2	25-05-19	1/6/2019	7 days	8.875	22500	298	13.24	
3	25-05-19	1/6/2019	7 days	8.812	22500	293	13.02	

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Test Report on Compressive strength of Solid Block	
Project	Park development and Walking Track in Thirumenahalli Lake at Ward No 05 Jakkur
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Cross sectional area	80000 mm2
Size of cube	400mm x 200mm x 200mm
No. of Block Tested	3
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2
1	8/6/2019	8/6/2019	80000	406.00	5.08	5.00
2	8/6/2019	8/6/2019	80000	402.00	5.03	
3	8/6/2019	8/6/2019	80000	405.00	5.06	

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Test report on Compressive strength of Solid Block

Project	Park development and Walking Track in Thirumenahalli Lake at Ward No 05 Jakkur
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Cross sectional area	60000 mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	3
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2
1	8/6/2019	8/6/2019	60000	301.00	5.02	5.00
2	8/6/2019	8/6/2019	60000	302.00	5.03	
3	8/6/2019	8/6/2019	60000	300.00	5.00	

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 90 days from the date of testing.

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Authorised Signatory

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Name of Work	:	Park development and Walking Track in Thirumenahalli Lake at Ward No 05 Jakkur
No.of Sample Tested	:	3
Date of Testing	:	13-06-19
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} - 100mm thick

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.458	2591.75	1.80	0.960	38.56	19.64	21.21	20.36	25.45
2	50.00	90.00	0.458	2591.75	1.80	0.960	38.42	19.57	21.13	20.29	25.36
3	50.00	90.00	0.500	2829.42	1.80	0.960	38.56	19.64	21.21	20.36	25.45

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Consultant's Representative

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Name of Work	:	Park development and Walking Track in Thirumenahalli Lake at Ward No 05 Jakkur
No.of Sample Tested	:	3
Date of Testing	:	13-06-19
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} . 100mm thick

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.462	2614.39	1.80	0.960	38.58	19.65	21.22	20.37	25.46
2	50.00	90.00	0.479	2710.59	1.80	0.960	38.32	19.52	21.08	20.23	25.29
3	50.00	90.00	0.450	2546.48	1.80	0.960	38.46	19.59	21.15	20.31	25.39

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KERB STONE (CORE) TEST REPORT

nt	:	Bruhath Bangalore Mahanagara Palike
ractor	:	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
e of Work	:	Park development and Walking Track in Thirumenahalli Lake at Ward No 05 Jakkur
f Sample Tested	:	3
of Testing	:	5/7/2019
nical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
de of Concrete	:	M_{15}

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.411	2462.60	1.70	0.960	32.50	16.55	17.88	17.16	21.45
2	50.00	85.00	0.412	2468.59	1.70	0.960	33.28	16.95	18.31	17.57	21.97
3	50.00	85.00	0.418	2504.54	1.70	0.960	32.30	16.45	17.77	17.06	21.32

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